

STATE OF NEVADA  
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR POLLUTION CONTROL

**Director's Review and Preliminary Determination of Permit Issuance  
for**

**Barrick Goldstrike Mines, Inc.  
Western 102 Facility  
Storey County, Nevada  
January 19, 2012**

Barrick Goldstrike Mines, Inc. submitted an application for renewal for Class I Air Quality Operating Permit (AQOP) AP4911-2189.01 to the Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC). The AQOP application was submitted on February 14, 2011 and deemed complete on March 31, 2011. The facility is located in Storey County, in Sections 33 and 34, T29N, R22E (MDB&M), approximately 25 kilometers east of Reno, on the south side of the Truckee River at 2555 Waltham Way, McCarran, NV 89434.

The BAPC has reviewed the application for renewal, and has made a preliminary determination to issue the renewed Class I Operating Permit. The project consists of fourteen (14) natural gas turbine reciprocating internal combustion engines and one (1) 170 HP Emergency Diesel Generator. The 14 turbine engines develop approximately 115 MW of electricity and each have their own selective catalyst reduction and oxidation catalyst system which reduces the emissions of nitrogen oxides, carbon monoxide, volatile organic compounds, and hazardous air pollutants. The proposed facility-wide potential-to-emit (PTE) is given in the table below:

Current emission estimates indicate that the Western 102 facility will continue to be a Class 1 stationary source, because emissions of one or more criteria pollutants are greater than 100 tons per year (tpy).	Facility-Wide Potential to Emit (PTE)		
	Pollutant		TPY
	PM	(Particulate Matter)	158.88
	PM <sub>10</sub>	(Particulate matter <10 microns in diameter)	158.88
	NO <sub>x</sub>	(Oxides of Nitrogen)	95.46
	CO	(Carbon monoxide)	152.68
	VOC	(Volatile Organic Compounds)	149.66
	SO <sub>2</sub>	(Sulfur Dioxide)	35.67
	Pb	(Lead)	N/A
	CH <sub>2</sub> O	(Formaldehyde)	9.94
	HAPs (all)	(Hazardous Air Pollutants including CH <sub>2</sub> O)	22.4

The project is located in Air Quality Hydrographic Area (HA) 83 – the Tracy Segment of the Truckee River Basin. The Western 102 Facility is an area source of HAPs. The 14 natural gas engines and the emergency generator will be subject to emissions standards pursuant to 40 CFR Part 63, Subpart ZZZZ – *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

Air dispersion modeling conducted by the applicant and the BAPC demonstrates that continued operation of the facility, after the renewal, will not violate any applicable ambient air quality standard. The Western 102 Facility must comply with all State and Federal air quality requirements and all conditions established within the draft renewed Class I Air Quality Operating Permit.